

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 06-053799

(43)Date of publication of application : 25.02.1994

(51)Int.Cl.

H03K 17/687

(21)Application number : 04-206349

(71)Applicant : NEC CORP

(22)Date of filing : 03.08.1992

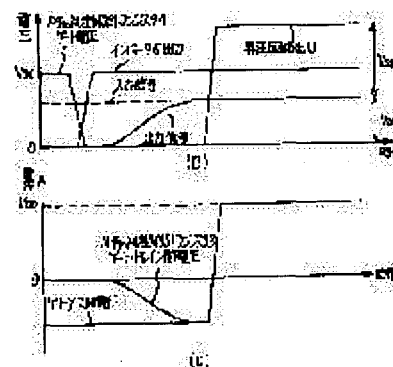
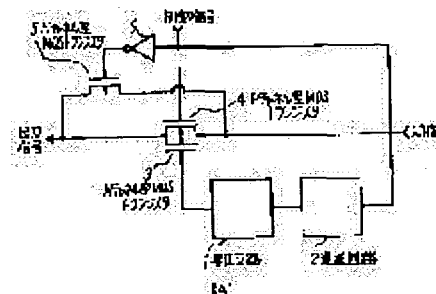
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## (54) SEMICONDUCTOR DEVICE

## (57)Abstract:

PURPOSE: To realize an analog switch workable in a range of a power supply voltage of nearly 5V from a low power supply voltage (threshold level  $V_{TP} + V_{TN}$ ) of a mutually complementary transfer gate.

CONSTITUTION: An N-channel MOS transistor (TR) 5 is connected in parallel between an input and output of a complementary transfer gate comprising an N-channel MOS TR 3 whose source is used for an input terminal and whose drain is used for an output terminal and a P-channel MOS TR 4. Then a control signal is given to a gate of the TR 3 via a delay circuit 2 and a boosting circuit 1, a gate of the TR 5 via an inverter 6 and a gate of the TR 4 respectively.



## LEGAL STATUS

[Date of request for examination]

31.07.1996

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

2858507

[Date of registration]

04.12.1998

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]